

**Notice of Allowability**

Application No.

10/766,622

Applicant(s)

PARK, CHAN YOUNG

Examiner

MANSOUR M. SAID

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/7/07.
2. ☒ The allowed claim(s) is/are 1-13 & 15, and renumbered as 1-14.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 4/1/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

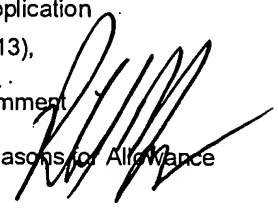
5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_

7. ☐ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other \_\_\_\_\_

  
**RICHARD HJERPE**  
SUPERVISORY PATENT EXAMINER  
TECHNICAL CENTER 2600

## DETAILED ACTION

### *Terminal Disclaimer*

1. The terminal disclaimer filed on 3/7/07 disclaiming the terminal portion of any patent granted on this application, which would extend beyond the expiration date of U.S. Patent No. 6,874,693 B2 has been reviewed and is accepted. The terminal disclaimer has been recorded.

### *Allowable Subject Matter*

2. **Claims 1-13 and 15 are allowed.**

The following is an examiner's statement of reasons for allowance: Claims 1-13 and 15 are allowed since certain key features of the claimed invention are not taught or fairly suggested by prior art. **In claim 1**, "a light superimposer of optical fibers for superimposing beams of light from the two or more lasers; a rotational color separator for separating a superimposed beam of light into a red beam of light, a green beam of light, and blue beam of light in succession; an illuminating device for irradiating the red, green, and blue beams of light separated in succession to a display panel; the display panel for receiving an electrical picture signal and regulating a quantity of light from the illuminating device based on the electric picture signal to form an image; and a controller for matching a color area of the beam of light from the rotational color separator to a color area of a color signal from the display panel". **In claim 8**, "a red laser, a green laser, and a blue laser for emitting a red beam of light, a green beam of light, and a blue beam of light; a light superimposer of optical fibers for superimposing the red, green, and blue beams of light from the lasers respectively; an illuminating device for irradiating the

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superimposed light to a display panel; a display panel for receiving an electrical picture signal, and regulating a quantity of light incident thereon from the illuminating device to form an image based on the electrical picture signal; and a controller for receiving, and separating the picture signal into red, green, and blue signals, and turning on a relevant color laser in succession". In claim 12, "a light superimposer of optical fibers for superimposing the lights from two or more lasers, wherein the light superimposer comprises at least one optical fiber inlet part for receiving the red, green, and blue beams of light, an optical fiber superimposing part having at least one optical fiber inlet part unitized into one for superimposing the red, green, and blue beams of light to form a white beam of light, and an optical fiber output part for providing the white beam of light". The closest prior art Conemac (6,226,126 B1) teaches a laser beam mixer combines two or more input laser beams. Kruschwitz et al. (6,594,090 B2) teach a laser projection display system includes a laser light source for emitting a light beam, a beam expander for expanding the light beam, a spatial light modulator, beam shaping optics for shaping the expanded laser beam to provide uniform illumination of the spatial light modulator. Lee (6,426,781) teaches a laser video projector for modulating light from a laser light source and projecting video information to a screen using a scanner, however, singularly or in combination with other prior art, fail to anticipate or render the above underlined limitations obvious.

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3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### *Conclusion*

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mansour M. Said whose telephone number is 571-272-7679. The examiner can normally be reached on Monday through Thursday from 8:30-6:00 P.M. The examiner can also be reached on alternate Friday from 8:30 a.m. to 5:00 p.m. EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe whose telephone number is 571-272-7681.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: 571-273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to the Customer Service Window at the Randolph Building, 401, Dulany Street, Alexandria, VA 22314.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Mansour M. Said**

3/16/07



**RICHARD HJERPE**  
**SUPERVISORY PATENT EXAMINER**  
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